

Title (en)
PRIMARY ALKALINE BATTERY

Title (de)
ALKALI-PRIMÄRBATTERIE

Title (fr)
BATTERIE ALCALINE PRIMAIRE

Publication
EP 3605665 B1 20230201 (EN)

Application
EP 19195828 A 20110310

Priority
• EP 11709573 A 20110310
• US 72266910 A 20100312
• US 2011027800 W 20110310

Abstract (en)
[origin: US2011223493A1] A primary battery includes a cathode having a non-stoichiometric metal oxide including transition metals Ni, Mn, Co, or a combination of metal atoms, an alkali metal, and hydrogen; an anode; a separator between the cathode and the anode; and an alkaline electrolyte.

IPC 8 full level
H01M 4/06 (2006.01); **H01M 4/42** (2006.01); **H01M 4/505** (2006.01); **H01M 4/525** (2006.01); **H01M 6/04** (2006.01); **H01M 4/36** (2006.01)

CPC (source: EP US)
B26B 21/14 (2013.01 - EP US); **B26B 21/222** (2013.01 - EP US); **B26B 21/225** (2013.01 - EP US); **B26B 21/4012** (2013.01 - US); **B26B 21/521** (2013.01 - EP US); **H01M 4/06** (2013.01 - EP US); **H01M 4/08** (2013.01 - US); **H01M 4/26** (2013.01 - US); **H01M 4/362** (2013.01 - US); **H01M 4/366** (2013.01 - EP US); **H01M 4/42** (2013.01 - EP US); **H01M 4/50** (2013.01 - US); **H01M 4/505** (2013.01 - EP US); **H01M 4/525** (2013.01 - EP US); **H01M 6/04** (2013.01 - EP US); **H01M 2220/30** (2013.01 - US); **Y02E 60/10** (2013.01 - EP); **Y10T 29/49108** (2015.01 - EP US); **Y10T 29/49115** (2015.01 - EP US)

Cited by
EP4118037A4

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
US 2011223493 A1 20110915; US 8298706 B2 20121030; CN 102792489 A 20121121; EP 2545604 A1 20130116; EP 2545604 B1 20190911; EP 3605665 A1 20200205; EP 3605665 B1 20230201; US 10232520 B2 20190319; US 10826062 B2 20201103; US 11811058 B2 20231107; US 11876221 B2 20240116; US 2013036603 A1 20130214; US 2016301074 A1 20161013; US 2019214646 A1 20190711; US 2021057741 A1 20210225; US 2022123294 A1 20220421; US 9498890 B2 20161122; WO 2011112758 A1 20110915

DOCDB simple family (application)
US 72266910 A 20100312; CN 201180013044 A 20110310; EP 11709573 A 20110310; EP 19195828 A 20110310; US 2011027800 W 20110310; US 201213627220 A 20120926; US 201615136847 A 20160422; US 201916357245 A 20190318; US 202017087289 A 20201102; US 202117646677 A 20211230